

ADAPTIVE QUANTIZATION BASED ON BIT RATE PREDICTION AND  
PREDICTION ERROR ENERGY

ABSTRACT OF THE DISCLOSURE

5

A method for adaptive quantization of video frames based on bit rate  
prediction that includes increasing quantization in sectors of a video frame where coding  
artifacts would be less noticeable to the human visual system and decreasing quantization  
10 in sectors where coding artifacts would be more noticeable to the human visual system.  
In one embodiment the method reverts to uniform quantization for video frames in which  
adaptive quantization would require extra bits.